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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:42:13 ; Search time 94.5 Seconds
(without alignments)
284.076 Million cell updates/sec

Title: US-09-882-434A-21

Perfect score: 427

Sequence: 1 SPTVWSGPGCNRABRYSK.....FGSSARACNPFQWKSIFIQ 76

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1566620 seqs, 353225886 residues

Total number of hits satisfying chosen parameters: 1566620

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	427	100.0	76	9 US-09-882-434A-21	Sequence 21, Appl
2	423	99.1	76	9 US-09-882-434A-19	Sequence 19, Appl
3	421	98.6	76	9 US-09-882-434A-17	Sequence 17, Appl
4	420	98.4	76	9 US-09-882-434A-20	Sequence 20, Appl
5	417	97.7	102	9 US-09-882-434A-1	Sequence 1, Appl
6	416	97.4	76	9 US-09-882-434A-18	Sequence 18, Appl
7	413	96.7	76	9 US-09-882-434A-15	Sequence 15, Appl
8	413	96.7	76	9 US-09-882-434A-16	Sequence 16, Appl
9	168.5	39.5	116	17 US-10-425-115-251061	Sequence 251061,
10	81.5	19.1	500	15 US-10-424-599-214772	Sequence 214772,
11	72	16.9	68	17 US-10-425-115-303206	Sequence 303206,
12	72	16.9	174	15 US-10-424-599-253846	Sequence 253846,
13	71.5	16.7	486	9 US-09-801-368-154	Sequence 154, Appl

14	71.5	16.7	486	14	US-10-369-493-21896	Sequence 21896, A
15	71	16.6	136	14	US-10-091-135-83	Sequence 83, Appl
16	71	16.6	557	14	US-10-369-493-3800	Sequence 3800, Ap
17	68.5	16.0	1557	14	US-10-369-493-6816	Sequence 6816, Ap
18	68.5	16.0	1690	14	US-10-184-644-449	Sequence 449, App
19	68.5	16.0	1690	14	US-10-184-644-449	Sequence 449, App
20	68	15.9	485	14	US-10-369-493-21893	Sequence 21893, A
21	67.5	15.8	585	9	US-09-841-132-337	Sequence 337, App
22	67.5	15.8	1174	14	US-10-123-155-271	Sequence 271, App
23	67.5	15.8	1174	14	US-10-146-731-271	Sequence 271, App
24	67.5	15.8	1174	14	US-10-140-472-271	Sequence 271, App
25	67.5	15.8	1174	14	US-10-141-761-271	Sequence 271, App
26	67.5	15.8	1174	14	US-10-142-885-271	Sequence 271, App
27	67.5	15.8	1174	14	US-10-158-790-271	Sequence 271, App
28	67.5	15.8	1174	14	US-10-137-871-271	Sequence 271, App
29	67.5	15.8	1174	14	US-10-140-923-271	Sequence 271, App
30	67.5	15.8	1174	14	US-10-141-756-271	Sequence 271, App
31	67.5	15.8	1174	14	US-10-141-759-271	Sequence 271, App
32	67.5	15.8	1174	14	US-10-140-805-271	Sequence 271, App
33	67.5	15.8	1174	14	US-10-140-864-271	Sequence 271, App
34	67.5	15.8	1174	15	US-10-142-426-271	Sequence 271, App
35	67.5	15.8	1752	9	US-09-841-132-180	Sequence 180, App
36	67	15.7	2628	15	US-10-038-854-40	Sequence 40, Appl
37	67	15.7	2715	15	US-10-042-865-52	Sequence 52, Appl
38	67	15.7	2715	15	US-10-029-020-51	Sequence 51, Appl
39	67	15.7	2721	15	US-10-038-854-38	Sequence 38, Appl
40	67	15.7	2725	15	US-10-038-854-36	Sequence 36, Appl
41	66.5	15.6	7285	14	US-10-145-206-28	Sequence 28, Appl
42	66	15.5	92	16	US-10-437-963-184834	Sequence 184834, A
43	66	15.5	146	16	US-10-767-701-60832	Sequence 60832, A
44	66	15.5	856	14	US-10-231-778-221	Sequence 221, App
45	66	15.5	880	15	US-10-425-114-72833	Sequence 72833, A

ALIGNMENTS

RESULT 1
US-09-882-434A-21
; Sequence 21, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULIN18.1CPICI
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M146K/54K variant. Variant M146K protein
; OTHER INFORMATION: M146K/54K containing a Lysine at amino acid 46 and
; OTHER INFORMATION: a Lysine at amino acid 54.
US-09-882-434A-21

Query Match 100.0%; Score 427; DB 9; Length 76;
Best Local Similarity 100.0%; Pred. No. 2.7e-42;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
QY 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 2

US-09-882-434A-19
; Sequence 19, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULLN18.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M154K variant. Variant MIAMP1 protein M154K
; OTHER INFORMATION: containing a Lysine at amino acid 54 (used primer
; OTHER INFORMATION: from SEQ ID NO:12 to produce).
US-09-882-434A-19

Query Match 99.1%; Score 423; DB 9; Length 76;
Best Local Similarity 98.7%; Pred. No. 7.8e-42;
Matches 75; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
QY 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 3

US-09-882-434A-17
; Sequence 17, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULLN18.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09

; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M146K variant. Variant MIAMP1 protein M146K
; OTHER INFORMATION: containing a Lysine at amino acid 46 (used primer
; OTHER INFORMATION: from SEQ ID NO:10 to produce).
US-09-882-434A-17

Query Match 98.6%; Score 421; DB 9; Length 76;
Best Local Similarity 98.7%; Pred. No. 1.3e-41;
Matches 75; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
QY 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

RESULT 4

US-09-882-434A-20
; Sequence 20, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULLN18.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M146K/54V variant. Variant MIAMP1 protein
; OTHER INFORMATION: M146K/54V containing a Lysine at amino acid 46 and
; OTHER INFORMATION: a Valine at amino acid 54.
US-09-882-434A-20

Query Match 98.4%; Score 420; DB 9; Length 76;
Best Local Similarity 98.7%; Pred. No. 1.8e-41;
Matches 75; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
Db 1 SAFTWSGPGCNNRAERYSKGCSAIHQKGGYDFSYTGTAALYNKAGCGVAKTRFGSS 60
QY 61 ARACNPFGWKSIFIQC 76
Db 61 ARACNPFGWKSIFIQC 76

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; OTHER INFORMATION: containing a Valine at amino acid 54 (used primer
; OTHER INFORMATION: from SEQ ID NO:11 to produce).
US-09-882-434A-18

Query Match          97.4%; Score 416; DB 9; Length 76;
Best Local Similarity 97.4%; Pred. No. 5.2e-41;
Matches 74; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 60
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Db 1 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 60
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QY 61 ARACNPFGWKSIFIQC 76
   |||||||
Db 61 ARACNPFGWKSIFIQC 76
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RESULT 7
US-09-882-434A-15
; Sequence 15, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULLN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mi28K variant. Variant MiAMP1 protein Mi28K
; OTHER INFORMATION: containing a Lysine at amino acid 28 (used primer
; OTHER INFORMATION: from SEQ ID NO:8 to produce).
US-09-882-434A-15

Query Match          96.7%; Score 413; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 1.2e-40;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 60
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Db 1 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 60
   |||||||
QY 61 ARACNPFGWKSIFIQC 76
   |||||||
Db 61 ARACNPFGWKSIFIQC 76
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RESULT 8
US-09-882-434A-16
; Sequence 16, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
```

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; OTHER INFORMATION: Mi54V variant. Variant MiAMP1 protein Mi54V
; OTHER INFORMATION: from SEQ ID NO:11 to produce).
US-09-882-434A-18

Query Match          97.7%; Score 417; DB 9; Length 102;
Best Local Similarity 97.4%; Pred. No. 5.4e-41;
Matches 74; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 60
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Db 27 SAFTVWSGPGCNNAERYSKGCSAIHQKGYDFSYTGOTAAALYNKAGCSGVAKTRFGSS 86
   |||||||
QY 61 ARACNPFGWKSIFIQC 76
   |||||||
Db 87 ARACNPFGWKSIFIQC 102
   |||||||

RESULT 6
US-09-882-434A-18
; Sequence 18, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULLN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mi54V variant. Variant MiAMP1 protein Mi54V
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FILE REFERENCE: CULLN18.1CPICI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M139K variant. Variant M1Amp1 protein M139K
; OTHER INFORMATION: containing a Lysine at amino acid 39 (used primer
; OTHER INFORMATION: from SEQ ID NO:9 to produce).
US-09-882-434A-16

Query Match 96.7%; Score 413; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 1.2e-40;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNNRAERYSKGCSAIHQGGYDFSYTGTAALYNKAGCSGVAKTRFGSS 60
DB 1 SAFTVWSGPGCNNRAERYSKGCSAIHQGGYDFSYTGTAALYNKAGCSGVAKTRFGSS 60

QY 61 ARACNPFGWKSIPIQC 76
DB 61 ARACNPFGWKSIPIQC 76

RESULT 9

US-10-425-115-251061
; Sequence 251061, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 251061
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_160554C.1.pap
US-10-425-115-251061

Query Match 39.5%; Score 168.5; DB 17; Length 116;
Best Local Similarity 38.8%; Pred. No. 7.9e-12;
Matches 31; Conservative 12; Mismatches 32; Indels 5; Gaps 2;

QY 1 SAFTVWSGPGCNNRAERYSKGCSAIHQGGYDFSYTGTAALYNKAGCSGVAKTR 56
DB 38 SYITWSGPGCTTGTHGHIASAGSCGNHLRFHGHEFNRGFTATLYSPGCGVTPYQV 97
QY 57 FGSSARACNPFGWKSIPIQC 76
DB 98 F-EDTQACGDFGWHSHIHC 116

RESULT 10

US-10-424-599-214772
; Sequence 214772, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 214772
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(500)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_35966C.1.pap
US-10-424-599-214772

Query Match 19.1%; Score 81.5; DB 15; Length 500;
Best Local Similarity 28.9%; Pred. No. 0.55;
Matches 22; Conservative 6; Mismatches 29; Indels 19; Gaps 5;

QY 8 GPGCNNRAERYSKGCSAIHQGGYDFSYTGTAALYNKAGCSGVAKTRFGSSAR 62
DB 145 GSGCRG-----GCRVYHASNGVRRSAYEFGHLHSHACSCFGVXC-GIKSKRFG--K 192

QY 63 ACNPFGWK--SIFIQC 76
DB 193 ICKPLTWKHGDIPLMC 208

RESULT 11

US-10-425-115-303206
; Sequence 303206, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 303206
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_39599C.1.pap
US-10-425-115-303206

Query Match 16.9%; Score 72; DB 17; Length 68;
Best Local Similarity 35.4%; Pred. No. 0.91;
Matches 23; Conservative 10; Mismatches 26; Indels 6; Gaps 4;

QY 11 CNNRAERYSKGCSAIHQGGYDFSYTGTAALYNKAGCSGVAKTRFGSSARACNPF 70
DB 10 CSSQSRHSICKCSAC--KASLFFS-TGMVRHSMHMGCLG-GRIGDSSRSQORPBG-- 63
QY 71 SIFIQ 75
DB 64 SVFVQ 68

```

RESULT 12
US-10-424-599-253846
; Sequence 253846, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: SOY Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 253846
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_71246C.1.pep
US-10-424-599-253846

Query Match      16.9%; Score 72; DB 15; Length 174;
Best Local Similarity 42.4%; Pred. No. 2.4;
Matches 14; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

QY 14 RAERYKCGCSAIIHQKGYDFSYTGQTAALYNK 46
Db 56 RAARLSACGVAACIKKGYKTAHVGDGSPFNK 88

RESULT 13
US-09-801-368-154
; Sequence 154, Application US/09801368
; Patent No. US20020128250A1
; GENERAL INFORMATION:
; APPLICANT: Busby, Robert
; APPLICANT: Cali, Brian
; APPLICANT: Hecht, Peter
; APPLICANT: Holtzman, Doug
; APPLICANT: Madden, Kevin
; APPLICANT: Maxon, Mary
; APPLICANT: Milne, Todd
; APPLICANT: No. US20020128250A1man, Thea
; APPLICANT: Rover, John
; APPLICANT: Salama, Sofie
; APPLICANT: Sherman, Amir
; APPLICANT: Silva, Jeff
; APPLICANT: Summers, Eric
; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
; FILE REFERENCE: 109272.147
; CURRENT APPLICATION NUMBER: US/09/801,368
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 09/487,558
; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: US 60/160,587
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 154
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-801-368-154

Query Match      16.7%; Score 71.5; DB 9; Length 486;
Best Local Similarity 31.7%; Pred. No. 8;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY 14 RAERYKCGCSAIIHQKGYDFSYTGQTAALYNKAGCGVAKTRFGSSARACNP-----FGW 69
Db 56 RAARLSACGVAACIKKGYKTAHVGDGSPFNK 88

RESULT 14
US-10-369-493-21896
; Sequence 21896, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21896
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21896

Query Match      16.7%; Score 71.5; DB 14; Length 486;
Best Local Similarity 31.7%; Pred. No. 8;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY 14 RAERYKCGCSAIIHQKGYDFSYTGQTAALYNKAGCGVAKTRFGSSARACNP-----FGW 69
Db 391 RAARLSVCGIAAICQKRGYKGTGHAADGVSINRYP-----GFKEKAANALKDIYGV 441

RESULT 15
US-10-091-135-83
; Sequence 83, Application US/10091135
; Publication No. US20030039660A1
; GENERAL INFORMATION:
; APPLICANT: King, Te piao
; APPLICANT: Spangfort, Michael Dho
; TITLE OF INVENTION: RECOMBINANT HYBRID ALLERGEN CONSTRUCTS WITH REDUCED
; TITLE OF INVENTION: ALLERGENICITY THAT RETAIN IMMUNOGENICITY OF THE NATURAL ALLERGEN
; FILE REFERENCE: 2313/1H587-US1
; CURRENT APPLICATION NUMBER: US/10/091,135
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/272,818
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 83
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-10-091-135-83

Query Match      16.6%; Score 71; DB 14; Length 136;
Best Local Similarity 32.3%; Pred. No. 2.4;
Matches 31; Conservative 5; Mismatches 24; Indels 36; Gaps 8;

QY 13 NRAERY--SKCG-CSAIIHQ-----KGYDFSYTGQTA-----LYNKA--GCSGV 52
Db 31 SRAQNYANSRAGDCNLIHSGAGENLAKGGDF--TGRAAVQLWVSRPSYVATNCVCG 88
QY 53 AK-----TFGSSARACNPFQWKSIFIQC 76
Db 89 KKRHYTVQVWRNSVRLGCGRARCNNNGW--WFISC 122

Search completed: November 10, 2004, 20:00:38
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Db 391 RAARLSVCGIAAICQKRGYKGTGHAADGVSINRYP-----GFKEKAANALKDIYGV 441

RESULT 14
US-10-369-493-21896
; Sequence 21896, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21896
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21896

Query Match      16.7%; Score 71.5; DB 14; Length 486;
Best Local Similarity 31.7%; Pred. No. 8;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY 14 RAERYKCGCSAIIHQKGYDFSYTGQTAALYNKAGCGVAKTRFGSSARACNP-----FGW 69
Db 391 RAARLSVCGIAAICQKRGYKGTGHAADGVSINRYP-----GFKEKAANALKDIYGV 441

RESULT 15
US-10-091-135-83
; Sequence 83, Application US/10091135
; Publication No. US20030039660A1
; GENERAL INFORMATION:
; APPLICANT: King, Te piao
; APPLICANT: Spangfort, Michael Dho
; TITLE OF INVENTION: RECOMBINANT HYBRID ALLERGEN CONSTRUCTS WITH REDUCED
; TITLE OF INVENTION: ALLERGENICITY THAT RETAIN IMMUNOGENICITY OF THE NATURAL ALLERGEN
; FILE REFERENCE: 2313/1H587-US1
; CURRENT APPLICATION NUMBER: US/10/091,135
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/272,818
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 83
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-10-091-135-83

Query Match      16.6%; Score 71; DB 14; Length 136;
Best Local Similarity 32.3%; Pred. No. 2.4;
Matches 31; Conservative 5; Mismatches 24; Indels 36; Gaps 8;

QY 13 NRAERY--SKCG-CSAIIHQ-----KGYDFSYTGQTA-----LYNKA--GCSGV 52
Db 31 SRAQNYANSRAGDCNLIHSGAGENLAKGGDF--TGRAAVQLWVSRPSYVATNCVCG 88
QY 53 AK-----TFGSSARACNPFQWKSIFIQC 76
Db 89 KKRHYTVQVWRNSVRLGCGRARCNNNGW--WFISC 122

Search completed: November 10, 2004, 20:00:38
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Job time : 94.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:34:00 ; Search time 28 Seconds
(without alignments)
180.006 Million cell updates/sec

Title: US-09-882-434A-21
Perfect score: 427
Sequence: 1 SAFTVWSGPCNNRAERYSK.....FGSSARACNPPGKWSIFIQC 76

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:**

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	75.5	17.7	486	1	US-07-872-678A-48
2	73	17.1	491	4	US-09-248-796A-17049
3	71.5	16.7	486	4	US-08-169-613A-2
4	71.5	16.7	486	4	US-08-622-191-8
5	68	15.9	486	4	US-08-622-191-7
6	67.5	15.8	459	4	US-09-328-352-4648
7	67.5	15.8	585	4	US-09-620-412C-337
8	67.5	15.8	585	4	US-09-598-419-337
9	67.5	15.8	1752	4	US-09-556-877-180
10	67.5	15.8	1752	4	US-09-620-412C-180
11	67.5	15.8	1752	4	US-09-598-419-180
12	66	15.5	115	4	US-09-252-991A-28403
13	66	15.5	856	4	US-09-699-266A-13
14	66	15.5	977	4	US-09-252-991A-16655
15	65.5	15.3	111	2	US-07-857-224B-105
16	65.5	15.3	135	2	US-07-857-224B-98
17	65.5	15.3	135	2	US-07-857-224B-98
18	65.5	15.3	312	4	US-09-252-991A-19374
19	65.5	15.3	908	4	US-08-714-741-44
20	65	15.2	176	4	US-09-270-767-33555
21	65	15.2	176	4	US-09-270-767-48772
22	63.5	14.9	1019	1	US-08-296-014A-4
23	63.5	14.9	1019	2	US-08-596-405-4
24	63.5	14.9	1019	2	US-08-877-620-4
25	63.5	14.9	1019	4	US-09-287-368-4
26	63.5	14.9	1019	4	US-09-626-795-4
27	63.5	14.9	1083	1	US-08-296-014A-2

28 63.5 14.9 1083 2 US-08-596-405-2 Sequence 2, Appli
29 63.5 14.9 1083 2 US-08-877-620-2 Sequence 2, Appli
30 63.5 14.9 1083 4 US-09-287-368-2 Sequence 2, Appli
31 63.5 14.9 1083 4 US-09-626-795-2 Sequence 30166, A
32 63 14.8 365 4 US-09-252-991A-30166 Sequence 19245, A
33 62.5 14.6 139 4 US-09-252-991A-19245 Sequence 2, Appli
34 62.5 14.6 902 1 US-08-701-846-2 Sequence 2, Appli
35 62 14.5 1196 1 US-08-144-121-4 Sequence 4, Appli
36 62 14.5 1196 2 US-08-735-893-4 Sequence 4, Appli
37 62 14.5 1765 4 US-09-562-702A-16 Sequence 16, Appl
38 62 14.5 1765 4 US-09-561-818A-16 Sequence 16, Appl
39 62 14.5 1786 4 US-09-562-702A-14 Sequence 14, Appl
40 62 14.5 1786 4 US-09-561-818A-14 Sequence 14, Appl
41 62 14.5 1786 4 US-09-561-709B-9 Sequence 9, Appli
42 62 14.5 1786 4 US-09-538-092-869 Sequence 869, App
43 61.5 14.4 156 4 US-09-252-991A-24413 Sequence 24413, A
44 61 14.3 173 4 US-09-252-991A-30903 Sequence 30903, A
45 61 14.3 1572 4 US-09-562-702A-32 Sequence 32, Appl

ALIGNMENTS

RESULT 1
US-07-872-678A-48
; Sequence 48, Application US/07872678A
; Patent No. 5541060
; GENERAL INFORMATION:
; APPLICANT: Bell, Graeme, et al.
; TITLE OF INVENTION: DETECTION OF EARLY-ONSET
; TITLE OF INVENTION: NON-INSULIN-DEPENDENT DIABETES MELLITUS
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: Post Office Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/872,678A
; FILING DATE: 22-APRIL-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coughlin, Daniel F.
; REGISTRATION NUMBER: 36,111
; REFERENCE/DOCKET NUMBER: ARCD016
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 486 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-07-872-678A-48

Query Match 17.7%; Score 75.5; DB 1; Length 486;
Best Local Similarity 39.3%; Pred. No. 0.79; Mismatches 4; Indels 15; Gaps 4;

Matches 24; Conservative 4; Mismatches 18; Indels 15; Gaps 4;
QY 14 RAERYSKGCSAIHOKGYDFSYTGTAAIYNKAGCSGVAKTRF-GSSARACNP---FG 68
DB 391 RAARLSVCGIAICQKRGYK--TGHIAA-----DGSVSTRYGFKEKANALKDIYG 440

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QY      69 W 69
Db      441 W 441

RESULT 2
US-09-248-796A-17049
; Sequence 17049, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17049
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-17049

Query Match      17.1%; Score 73; DB 4; Length 491;
Best Local Similarity 42.4%; Pred. No. 1.6;
Matches 14; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

QY      14 RAERYSKGCSAIHQKGGYDFSYTGQTAALYNK 46
Db      398 RSARFSVCGIAAICQKRGYKTHAAGDSVYNK 430

RESULT 3
US-08-169-613A-2
; Sequence 2, Application US/08169613A
; Patent No. 6486380
; GENERAL INFORMATION:
; APPLICANT: Epstein, Paul
; TITLE OF INVENTION: Pancreatic B Cell Hexokinase Transgene
; FILE REFERENCE: P0044US0
; CURRENT APPLICATION NUMBER: US/08/169,613A
; CURRENT FILING DATE: 1993-12-17
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 486
; TYPE: PRT
; ORGANISM: yeast
US-08-169-613A-2

Query Match      16.7%; Score 71.5; DB 4; Length 486;
Best Local Similarity 31.7%; Pred. No. 2.4;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY      14 RAERYSKGCSAIHQKGGYDFSYTGQTAALYNKAGCGSVAKTRFGSSARACNP-----FCW 69
Db      391 RAARLSVCGIAAICQKRGYKTHAAGDSVYNRP-----GFKKAANALKDIYGW 441

RESULT 4
US-08-622-191-8
; Sequence 8, Application US/08622191A
; Patent No. 6632602
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Jang, Jyan-Chyun
; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
; FILE REFERENCE: 00786/307001
; CURRENT APPLICATION NUMBER: US/08/622,191A

Query Match      15.8%; Score 67.5; DB 4; Length 459;
Best Local Similarity 33.3%; Pred. No. 6.6;
Matches 18; Conservative 6; Mismatches 19; Indels 11; Gaps 2;

QY      17 RYSKKGCSAIHQKGGYDFSYTGQTAALYNKAGCGSVAKTRFG---SSARACNPF 67
Db      96 RXLQLCGCGVNGAGGDDID-----FDNVLSGVADTRGVRVADKLITNPF 141

; CURRENT FILING DATE: 1996-03-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-622-191-8

Query Match      16.7%; Score 71.5; DB 4; Length 486;
Best Local Similarity 31.7%; Pred. No. 2.4;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY      14 RAERYSKGCSAIHQKGGYDFSYTGQTAALYNKAGCGSVAKTRFGSSARACNP-----FCW 69
Db      391 RAARLSVCGIAAICQKRGYKTHAAGDSVYNRP-----GFKKAANALKDIYGW 441

RESULT 5
US-08-622-191-7
; Sequence 7, Application US/08622191A
; Patent No. 6632602
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Jang, Jyan-Chyun
; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
; FILE REFERENCE: 00786/307001
; CURRENT APPLICATION NUMBER: US/08/622,191A
; CURRENT FILING DATE: 1996-03-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-622-191-7

Query Match      15.9%; Score 68; DB 4; Length 486;
Best Local Similarity 42.4%; Pred. No. 6.2;
Matches 14; Conservative 5; Mismatches 14; Indels 0; Gaps 0;

QY      14 RAERYSKGCSAIHQKGGYDFSYTGQTAALYNK 46
Db      391 RAARLAVCGIAAICQKRGYKTHAAGDSVYNK 423

RESULT 6
US-09-328-352-4648
; Sequence 4648, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4648
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4648

Query Match      15.8%; Score 67.5; DB 4; Length 459;
Best Local Similarity 33.3%; Pred. No. 6.6;
Matches 18; Conservative 6; Mismatches 19; Indels 11; Gaps 2;

QY      17 RYSKKGCSAIHQKGGYDFSYTGQTAALYNKAGCGSVAKTRFG---SSARACNPF 67
Db      96 RXLQLCGCGVNGAGGDDID-----FDNVLSGVADTRGVRVADKLITNPF 141
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RESULT 12

US-09-252-991A-28403
; Sequence 28403, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28403
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28403

Query Match 15.5%; Score 66; DB 4; Length 115;
Best Local Similarity 30.0%; Pred. No. 2;
Matches 24; Conservative 3; Mismatches 29; Indels 24; Gaps 4;
QY 2 AFTWSPGCGNNRA-----ERYSKC-----GCSAIHQGGYDFSYTGQTALY 44
DB 42 ATACWSRPTCNRRCSAWESTRCTWCTTTATASPRNCSPAITKAG-----CGSPAC 96
QY 45 NKAGCGVAKTRFGSSARAC 64
DB 97 SMVCSKRXRYAR--CSARSC 114

RESULT 13

US-09-699-266A-13
; Sequence 13, Application US/09699266A
; Patent No. 6559354
; GENERAL INFORMATION:
; APPLICANT: Ma, Hongchang
; APPLICANT: Morakinyo, Layo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Grozsko Jr., Emil M.
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: TRANSCRIPTION AND GENE EXPRESSION REGULATORS
; FILE REFERENCE: BB1164 US NA
; CURRENT APPLICATION NUMBER: US/09/699,266A
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: PC/US99/08385
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 60/083,212
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 13
; LENGTH: 856
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-699-266A-13

Query Match 15.5%; Score 66; DB 4; Length 856;
Best Local Similarity 21.7%; Pred. No. 21;
Matches 20; Conservative 13; Mismatches 37; Indels 22; Gaps 3;
QY 4 TWWS--GFCNNRERYSKGCSAIHQGGYDFSYTGQTALYNAKCGSVAKTRFG--- 58
DB 592 SVWKRIAGGNQSCQYTPCGCLSM---CGKDCPLTNETCEKYCGGSKCKNFRGCH 648
QY 59 -----SSARACNPFQWKSIFQC 76
DB 649 CAKSQCRSRQCFCAAGRECDPDVCRNCWVSC 680

RESULT 14

US-09-252-991A-16655
; Sequence 16655, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16655
; LENGTH: 977
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16655

Query Match 15.5%; Score 66; DB 4; Length 977;
Best Local Similarity 31.6%; Pred. No. 24;
Matches 24; Conservative 6; Mismatches 26; Indels 20; Gaps 5;
QY 9 PGCNNRERYSKCG-CSAIHQGGYDFSYTGQTALYNNK---AG-----CSGVAK 54
DB 179 FGWRRRAQRRRRAGVCRATRTTGG-----AGDRPASQDRPEDAGRQATHPAFLCRGNRR 233
QY 55 TRFGSSARACNP-FGW 69
DB 234 HRSGSPARPSQPENGW 249

RESULT 15

US-07-857-224B-105
; Sequence 105, Application US/07857224B
; Patent No. 5958784
; GENERAL INFORMATION:
; APPLICANT: Benner, Steven A.
; TITLE OF INVENTION: Predicting Folded Structures of Proteins
; NUMBER OF SEQUENCES: 114
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Steven A. Benner
; STREET: Hadlaubstrasse 151
; CITY: Zurich
; STATE: none
; COUNTRY: Switzerland
; ZIP: (note: this is an international post code) CH-8092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.0
; SOFTWARE: Microsoft Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/857,224B
; FILING DATE: 03/25/92
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA: none
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (International) 41 1 632 2830
; TELEFAX: (International) 41 1 262 2437
; TELEX: none
; INFORMATION FOR SEQ ID NO: 105:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DESCRIPTION: protein
; ORIGINAL SOURCE:

ORGANISM: tobacco
FEATURE: Pathogenesis related protein; Table 17 Row 1
PUBLICATION INFORMATION:
AUTHORS: Cutt, J. R.
AUTHORS: Dixon, D. C.
AUTHORS: Carr, J. P.
AUTHORS: Klessig, D. F.
TITLE: Isolation and nucleotide sequence of cDNA clones for the
TITLE: pathogenesis related proteins of Nicotiana tabacum induced by TMV
TITLE: infection.
JOURNAL: Nucleic Acids Research
VOLUME: 16
PAGES: 9861
DATE: 1988
US-07-857-224B-105

Query Match 15.3%; Score 65.5; DB 2; Length 111;
Best Local Similarity 31.2%; Pred. No. 2.2;
Matches 30; Conservative 5; Mismatches 24; Indels 37; Gaps 8;
QY 13 NRAERY--SKCG-CSAIHQ-----KGGYDFSYTGOTAA-----LYNKA--GC SGV 52
Db 9 SRAQYANSRAGDCNLIHSGAGENLAKGGDF--TGRAAVQLWVSRPSPSYNYATNQCVGG 66
QY 53 AK-----TRFGSSARACNPFPGWKSIFIQ 76
Db 67 KRCRHVTQVVWRNSVRLGCGRARCNGW---FISC 99

Search completed: November 10, 2004, 19:45:38
Job time : 28 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 10, 2004, 19:42:13 ; Search time 94.5 Seconds
(without alignments)
284.076 Million cell updates/sec

Title: US-09-882-434A-20
Perfect score: 426
Sequence: 1 SAFTVWSGPCNNRAERYSK.....FGSSARACNPFQWKSIFIQC 76

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1566620 segs, 353225886 residues

Total number of hits satisfying chosen parameters: 1566620

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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11: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
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13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	426	100.0	76	9	US-09-882-434A-20
2	422	99.1	76	9	US-09-882-434A-18
3	420	98.6	76	9	US-09-882-434A-21
4	419	98.4	76	9	US-09-882-434A-17
5	416	97.7	76	9	US-09-882-434A-19
6	415	97.4	102	9	US-09-882-434A-1
7	411	96.5	76	9	US-09-882-434A-16
8	411	96.5	76	9	US-09-882-434A-15
9	169.5	39.8	116	17	US-10-425-115-251061
10	79.5	18.7	500	15	US-10-424-599-214772
11	72	16.9	92	16	US-10-437-963-184834
12	72	16.9	174	15	US-10-424-599-253846
13	71.5	16.8	486	9	US-09-801-368-154

14	71.5	16.8	486	14	US-10-369-493-21896	Sequence 21896, A
15	71	16.7	557	14	US-10-369-493-3800	Sequence 3800, Ap
16	69.5	16.3	1690	14	US-10-184-644-449	Sequence 449, App
17	69.5	16.3	1690	14	US-10-184-634-449	Sequence 449, App
18	69	16.2	68	17	US-10-425-115-303206	Sequence 303206,
19	68.5	16.1	1174	14	US-10-123-155-271	Sequence 271, App
20	68.5	16.1	1174	14	US-10-146-731-271	Sequence 271, App
21	68.5	16.1	1174	14	US-10-140-472-271	Sequence 271, App
22	68.5	16.1	1174	14	US-10-141-761-271	Sequence 271, App
23	68.5	16.1	1174	14	US-10-142-885-271	Sequence 271, App
24	68.5	16.1	1174	14	US-10-158-790-271	Sequence 271, App
25	68.5	16.1	1174	14	US-10-137-871-271	Sequence 271, App
26	68.5	16.1	1174	14	US-10-140-923-271	Sequence 271, App
27	68.5	16.1	1174	14	US-10-141-756-271	Sequence 271, App
28	68.5	16.1	1174	14	US-10-141-753-271	Sequence 271, App
29	68.5	16.1	1174	14	US-10-140-805-271	Sequence 271, App
30	68.5	16.1	1174	14	US-10-140-864-271	Sequence 271, App
31	68.5	16.1	1174	15	US-10-142-426-271	Sequence 271, App
32	68	16.0	485	14	US-10-369-493-21893	Sequence 21893, A
33	67.5	15.8	7285	14	US-10-145-206-28	Sequence 28, Appl
34	67	15.7	2628	15	US-10-038-854-40	Sequence 40, Appl
35	67	15.7	2715	15	US-10-042-865-52	Sequence 52, Appl
36	67	15.7	2715	15	US-10-029-020-51	Sequence 51, Appl
37	67	15.7	2721	15	US-10-038-854-38	Sequence 38, Appl
38	67	15.7	2725	15	US-10-038-854-36	Sequence 36, Appl
39	66.5	15.6	147	13	US-10-016-634A-115	Sequence 115, App
40	66.5	15.6	147	16	US-10-408-765A-1526	Sequence 1526, Ap
41	66.5	15.6	147	9	US-09-841-132-337	Sequence 337, App
42	66.5	15.6	1557	14	US-10-369-493-6816	Sequence 6816, Ap
43	66.5	15.6	1752	9	US-09-841-132-180	Sequence 180, App
44	66	15.5	146	16	US-10-767-701-60832	Sequence 60832, A
45	66	15.5	1576	14	US-10-037-182-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1
US-09-882-434A-20
; Sequence 20, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M146K/54V variant. Variant M146K/54V protein
; OTHER INFORMATION: M146K/54V containing a Lysine at amino acid 46 and
; OTHER INFORMATION: a Valine at amino acid 54.
US-09-882-434A-20

Query Match 100.0%; Score 426; DB 9; Length 76;
Best Local Similarity 100.0%; Pred. No. 1.3e-42;
Matches 76; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
US-09-882-434A-21
; Sequence 21, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09

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RESULT 4
US-09-882-434A-17
; Sequence 17, Application US/09882434A
; Patent No. US20020108144A1
GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lynn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1C.PC1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M146X variant. Variant
; OTHER INFORMATION: containing a lysine at
; OTHER INFORMATION: from SEQ ID NO:10 to p
US-09-882-434A-17

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	Query Match	98.4%;	Score 419;	DB 9;	Length 76;
	Best Local Similarity	98.7%;	Pred. No. 8.7e-42;		
	Matches	75; Conservative	0; Mismatches	1; Indels	0; Gaps
Qy	1 SAFTWSPGNCNNAERYSKGCSCAIHQKGYYDSYTCGTAAALYNKACSGVAVTRFGSS	60			
Dd	1 SAFTWSPGNCNNAERYSKGCSCAIHQKGYYDSYTCGTAAALYNKACSGVAHTRFGSS	60			
Qy	61 ARACNPFGWKSIPTOC	76			
Dd	61 ARACNPFGWKSIPTOC	76			

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RESULT 5
US-09-882-434A-19
; Sequence 19, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M154K variant. Variant MiAMP1 protein M154K
; OTHER INFORMATION: containing a Lysine at amino acid 54 (used primer
; OTHER INFORMATION: from SEQ ID NO:12 to produce).
US-09-882-434A-19

Query Match
Best Local Similarity 97.7%; Score 416; DB 9; Length 76;
Matches 74; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60
Db 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60

QY 61 ARACNPFGWKSIPIQC 76
Db 61 ARACNPFGWKSIPIQC 76

RESULT 6
US-09-882-434A-1
; Sequence 1, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M128K variant. Variant MiAMP1 protein M128K
; OTHER INFORMATION: containing a Lysine at amino acid 28 (used primer
; OTHER INFORMATION: from SEQ ID NO:8 to produce).
US-09-882-434A-15

Query Match
Best Local Similarity 96.5%; Score 411; DB 9; Length 76;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60
Db 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60

QY 61 ARACNPFGWKSIPIQC 76
Db 61 ARACNPFGWKSIPIQC 76

RESULT 7
US-09-882-434A-15
; Sequence 15, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M128K variant. Variant MiAMP1 protein M128K
; OTHER INFORMATION: containing a Lysine at amino acid 28 (used primer
; OTHER INFORMATION: from SEQ ID NO:8 to produce).
US-09-882-434A-15

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Best Local Similarity 96.1%; Score 411; DB 9; Length 76;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60

QY 61 ARACNPFGWKSIPIQC 76
Db 61 ARACNPFGWKSIPIQC 76

RESULT 8
US-09-882-434A-16
; Sequence 16, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN

```

```

; TYPE: PRT
; ORGANISM: Macadamia integrifolia
US-09-882-434A-1

Query Match
Best Local Similarity 97.4%; Score 415; DB 9; Length 102;
Matches 74; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60
Db 27 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 86

QY 61 ARACNPFGWKSIPIQC 76
Db 87 ARACNPFGWKSIPIQC 102

RESULT 7
US-09-882-434A-15
; Sequence 15, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN
; FILE REFERENCE: CULN18.1CPI1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: M128K variant. Variant MiAMP1 protein M128K
; OTHER INFORMATION: containing a Lysine at amino acid 28 (used primer
; OTHER INFORMATION: from SEQ ID NO:8 to produce).
US-09-882-434A-15

Query Match
Best Local Similarity 96.5%; Score 411; DB 9; Length 76;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60
Db 1 SAFTVWSGPGCNRAERYSKGCSAIHQKGGYDFSYTGQTAAALYNKAGCGVAVTRFGSS 60

QY 61 ARACNPFGWKSIPIQC 76
Db 61 ARACNPFGWKSIPIQC 76

RESULT 8
US-09-882-434A-16
; Sequence 16, Application US/09882434A
; Patent No. US20020108144A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie Lyn
; TITLE OF INVENTION: ANTI-MICROBIAL PROTEIN

```

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; FILE REFERENCE: CULLIN18.1CPL1C1
; CURRENT APPLICATION NUMBER: US/09/882,434A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/364395
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/117615
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/AU97/00052
; PRIOR FILING DATE: 1997-01-31
; PRIOR APPLICATION NUMBER: AU PN 7802
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mi39K variant. Variant MiAMP1 protein Mi39K
; OTHER INFORMATION: containing a Lysine at amino acid 39 (used primer
; OTHER INFORMATION: from SEQ ID NO:9 to produce).
;
US-09-882-434A-16

Query Match          96.5%; Score 411; DB 9; Length 76;
Best Local Similarity 96.1%; Pred. No. 7.7e-41;
Matches 73; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SAFTVSGPGCNNAERYSKGCSAIHQKGYDFSITGOTAAALYNKAGCSGVAVTRFGSS 60
Db 1 SAFTVSGPGCNNAERYSKGCSAIHQKGYDFSITGOTAAALYNKAGCSGVAVTRFGSS 60

Qy 61 ARACNPFQWKSIIFIQC 76
Db 61 ARACNPFQWKSIIFIQC 76

RESULT 9
US-10-425-115-251061
; Sequence 251061, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 251061
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MPT4577_160554C.1.pep
US-10-425-115-251061

Query Match          39.8%; Score 169.5; DB 17; Length 116;
Best Local Similarity 38.8%; Pred. No. 4.2e-12;
Matches 31; Conservative 12; Mismatches 32; Indels 5; Gaps 2;

Qy 1 SAFTVSGPGCNNAERY----SKGCSAIHQKGYDFSITGOTAAALYNKAGCSGVAVTR 56
Db 38 SVLTWSGGPGCTTGCTGHTIASGCCNHLRPHGGHEFNFRGCTATLISQPCVGTPIQV 97

Qy 57 FGSSARACNPFQWKSIIFIQC 76
Db 98 F-EDTQACGDFGWHSHIDC 116

RESULT 10
US-10-424-599-214772
; Sequence 214772, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 214772
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(500)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_35966C.1.pep
US-10-424-599-214772

Query Match          19.7%; Score 79.5; DB 15; Length 500;
Best Local Similarity 28.9%; Pred. No. 0.83;
Matches 22; Conservative 6; Mismatches 29; Indels 19; Gaps 5;

Qy 8 GPGCNNAERYSKGCSAIHQKGG-----YDFSITGOTAAALYNKAGCSGVAVTRFGSSAR 62
Db 145 GSGCRG-----GCRVHASNGVRRSAYEFHGHSHACSCFGVKC-GIKSKRFG---K 192

Qy 63 ACNPFQWK--SIFIQC 76
Db 193 ICKPLTWKHGDFILMC 208

RESULT 11
US-10-437-963-184834
; Sequence 184834, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184834
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8178C.1.pep
US-10-437-963-184834

Query Match          16.9%; Score 72; DB 16; Length 92;
Best Local Similarity 33.8%; Pred. No. 1.1;
Matches 22; Conservative 8; Mismatches 21; Indels 14; Gaps 4;

Qy 5 VMSG---FGCNRN---AERYSKGCSAIHQKGYD-----FSYTGOTAAALYNKAGCSG 51
Db 19 VWSGRTPVCSNSVHVVEDAAACGHAIRHRRFRDAGTTHRGFGHDARCGG-YRQSGDDG 77
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Query Match

QY 14 RAERYSKGCSATHOKGGYDFSYTGOTAAALYNK 46
Db 463 RAARLSACGVAALSKKKGYKQCHVGADGCVFNK 495

Search completed: November 10, 2004, 20:00:38
Job time : 105.5 secs

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	73.5	17.3	486	1	US-07-872-678A-48	Sequence 48, Appl
2	73	17.1	491	4	US-09-248-796A-17049	Sequence 17049, A
3	71.5	16.8	486	4	US-08-169-613A-2	Sequence 2, Appl
4	71.5	16.8	486	4	US-08-622-191-8	Sequence 8, Appl
5	68	16.0	486	4	US-08-622-191-7	Sequence 7, Appl
6	67	15.7	115	4	US-09-252-991A-28403	Sequence 28403, A
7	66.5	15.6	585	4	US-09-620-412C-337	Sequence 337, App
8	66.5	15.6	585	4	US-08-598-419-337	Sequence 337, App
9	66.5	15.6	908	4	US-08-714-741-44	Sequence 44, Appl
10	66.5	15.6	1752	4	US-09-556-877-180	Sequence 180, App
11	66.5	15.6	1752	4	US-09-620-412C-180	Sequence 180, App
12	66.5	15.6	1752	4	US-09-598-419-180	Sequence 180, App
13	66	15.5	1576	4	US-09-562-702A-24	Sequence 24, Appl
14	66	15.5	1576	4	US-09-561-818A-24	Sequence 24, Appl
15	66	15.5	1584	4	US-09-562-702A-28	Sequence 28, Appl
16	66	15.5	1609	4	US-09-562-702A-22	Sequence 22, Appl
17	66	15.5	1609	4	US-09-561-818A-22	Sequence 22, Appl
18	66	15.5	1609	4	US-09-538-092-900	Sequence 900, App
19	66	15.5	1617	4	US-09-562-702A-26	Sequence 26, Appl
20	65.5	15.4	459	4	US-09-328-352-4648	Sequence 4648, Ap
21	65.5	15.4	861	3	US-08-960-048-12	Sequence 12, Appl
22	65.5	15.4	861	4	US-09-838-586-12	Sequence 12, Appl
23	63.5	14.9	902	1	US-08-701-846-2	Sequence 2, Appl
24	62.5	14.7	156	4	US-09-252-991A-24413	Sequence 24413, A
25	62.5	14.7	1019	1	US-08-296-014A-4	Sequence 4, Appl
26	62.5	14.7	1019	2	US-08-596-405-4	Sequence 4, Appl
27	62.5	14.7	1019	2	US-08-577-620-4	Sequence 4, Appl

```
QY      69 W 69
Db      441 W 441

RESULT 2
US-09-248-796A-17049
; Sequence 17049, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17049
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-17049

Query Match      17.1%; Score 73; DB 4; Length 491;
Best Local Similarity 42.4%; Pred. No. 1.6;
Matches 14; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

QY      14 RAERYSKGCSAIHOKGGYDFSYTGQTAALYNK 46
Db      398 RSARFSVCGIAAICQKRGYKTAHCAADGVSINK 430

RESULT 3
US-08-169-613A-2
; Sequence 2, Application US/08169613A
; Patent No. 6486380
; GENERAL INFORMATION:
; APPLICANT: Epstein, Paul
; TITLE OF INVENTION: Pancreatic B Cell Hexokinase Transgene
; FILE REFERENCE: P0044US0
; CURRENT APPLICATION NUMBER: US/08/169,613A
; CURRENT FILING DATE: 1993-12-17
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 486
; TYPE: PRT
; ORGANISM: yeast
US-08-169-613A-2

Query Match      16.8%; Score 71.5; DB 4; Length 486;
Best Local Similarity 31.7%; Pred. No. 2.4;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY      14 RAERYSKGCSAIHOKGGYDFSYTGQTAALYNKAGCSGVAVTRFGSSARACNP-----PCW 69
Db      391 RAARLSVCGIAAICQKRGYKTHAADGVSINRYP-----GFKKAAALNKDIYGW 441

RESULT 4
US-08-622-191-8
; Sequence 8, Application US/08622191A
; Patent No. 6632602
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Jang, Jyan-Chyun
; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
; FILE REFERENCE: 00786/307001
; CURRENT APPLICATION NUMBER: US/08/622,191A

Query Match      15.7%; Score 67; DB 4; Length 115;
Best Local Similarity 30.0%; Pred. No. 1.5;
Matches 24; Conservative 3; Mismatches 29; Indels 24; Gaps 4;

QY      2 AFTVNSGPGCNNRA-----BRYSKC-----GCSAIHQKGGYDFSYTGQTAALY 44
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; CURRENT FILING DATE: 1996-03-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-622-191-8

Query Match      16.8%; Score 71.5; DB 4; Length 486;
Best Local Similarity 31.7%; Pred. No. 2.4;
Matches 19; Conservative 7; Mismatches 21; Indels 13; Gaps 2;

QY      14 RAERYSKGCSAIHOKGGYDFSYTGQTAALYNKAGCSGVAVTRFGSSARACNP-----PCW 69
Db      391 RAARLSVCGIAAICQKRGYKTHAADGVSINRYP-----GFKKAAALNKDIYGW 441

RESULT 5
US-08-622-191-7
; Sequence 7, Application US/08622191A
; Patent No. 6632602
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Jang, Jyan-Chyun
; TITLE OF INVENTION: PLANT SUGAR SENSORS AND USES THEREOF
; FILE REFERENCE: 00786/307001
; CURRENT APPLICATION NUMBER: US/08/622,191A
; CURRENT FILING DATE: 1996-03-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-622-191-7

Query Match      16.0%; Score 68; DB 4; Length 486;
Best Local Similarity 42.4%; Pred. No. 6.2;
Matches 14; Conservative 5; Mismatches 14; Indels 0; Gaps 0;

QY      14 RAERYSKGCSAIHOKGGYDFSYTGQTAALYNK 46
Db      391 RAARLAVCGIAAICQKRGYKTHAADGVSINK 423

RESULT 6
US-09-252-991A-28403
; Sequence 28403, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28403
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28403

Query Match      15.7%; Score 67; DB 4; Length 115;
Best Local Similarity 30.0%; Pred. No. 1.5;
Matches 24; Conservative 3; Mismatches 29; Indels 24; Gaps 4;

QY      2 AFTVNSGPGCNNRA-----BRYSKC-----GCSAIHQKGGYDFSYTGQTAALY 44
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Db      42 ATACWSRPTNRRCSAAWESTSRCTCWTPTTATASPRNCSPAITKAG-----CGSPSPACS 96
Qy      45 NKAGCSGVAVTRFGSSARAC 64
Db      97 SMVCSKRKTAR--CSARSC 114

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RESULT 7

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US-09-620-412C-337
; Sequence 337, Application US/09620412C
; Patent No. 6448234
; GENERAL INFORMATION:
; APPLICANT: Steven P. Fling
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
; FILE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C7
; CURRENT APPLICATION NUMBER: US/09/620,412C
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 337
; LENGTH: 585
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-09-620-412C-337

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Query Match      15.6%; Score 66.5; DB 4; Length 585;
Best Local Similarity 31.6%; Pred. No. 12;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

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Qy      18 YSKCGCSAIHQKGYDFSYGTGTAALYNKAG---CSGVAVTRFGSSARACNPFGWKS 71
Db      164 YSKQGGALYVEGGINFQDLEIRIKYNKAGTFETKKTITLPSLKAQASAGNADAWAS 220

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RESULT 8

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US-09-598-419-337
; Sequence 337, Application US/09598419
; Patent No. 6565856
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Scholler, John
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND
; FILE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C6
; CURRENT APPLICATION NUMBER: US/09/598,419
; CURRENT FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 357
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 337
; LENGTH: 585
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-09-598-419-337

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Query Match      15.6%; Score 66.5; DB 4; Length 585;
Best Local Similarity 31.6%; Pred. No. 12;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

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Qy      18 YSKCGCSAIHQKGYDFSYGTGTAALYNKAG---CSGVAVTRFGSSARACNPFGWKS 71
Db      164 YSKQGGALYVEGGINFQDLEIRIKYNKAGTFETKKTITLPSLKAQASAGNADAWAS 220

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RESULT 9

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US-08-714-741-44
; Sequence 44, Application US/08714741
; Patent No. 6500613
; GENERAL INFORMATION:
; APPLICANT: Briles, David E.
; APPLICANT: McDaniel, Larry S.
; APPLICANT: Swiatlo, Edwin

```

```

; APPLICANT: Yother, Janet
; APPLICANT: Crain, Marilyn J.
; APPLICANT: Hollingshead, Susan
; APPLICANT: Tart, Rebecca
; APPLICANT: Brooks-Walter, Alexis
; TITLE OF INVENTION: PNEUMOCOCCAL GENES, PORTIONS THEREOF,
; TITLE OF INVENTION: EXPRESSION PRODUCTS THEREFROM, AND USES OF SUCH GENES,
; TITLE OF INVENTION: PORTIONS AND PRODUCTS
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis, Morris & Safford, P.C.
; STREET: 530 Fifth Avenue
; CITY: New York
; STATE: New York
; COUNTRY: U.S.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/714,741
; FILING DATE: 16-SEP-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Frommer, Esq., William S.
; REGISTRATION NUMBER: 25,506
; REFERENCE/DOCKET NUMBER: 454312-2460
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 840-3333
; TELEFAX: (212) 840-0712
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 908 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-714-741-44

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Query Match      15.6%; Score 66.5; DB 4; Length 908;
Best Local Similarity 34.4%; Pred. No. 19;
Matches 22; Conservative 6; Mismatches 33; Indels 3; Gaps 2;

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Qy      1 SAFTVWSGPGCNRRARYSKGCSAIHQKGYDFSYGTGTAALYNKAGCSGVAVTRFGSS 60
Db      249 AAAAATTAAGC--AAGCAAAGCGAAAGTTGAGAGCTGCTAAA-AAAGCTGAATTAGAAA 305

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Qy      61 ARAC 64
Db      306 AAAC 309

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RESULT 10

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US-09-556-877-180
; Sequence 180, Application US/09556877
; Patent No. 6432916
; GENERAL INFORMATION:
; APPLICANT: Probst, Peter
; APPLICANT: Bhatia, Ajay
; APPLICANT: Skeiky, Yasir
; APPLICANT: Fling, Steve
; APPLICANT: Maisonneuve, Jeff

```

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; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
; FILE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C5
; CURRENT APPLICATION NUMBER: US/09/556,877
; CURRENT FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 305
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 180
; LENGTH: 1752

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; TYPE: PRT
; ORGANISM: Chlamydia
US-09-556-877-180

Query Match      15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKGCSAIIHQGGYDFSYGTQTAALYNKAG---CSGVAVTRFGSSARACNPFQWKS 71
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Db . 346 YSKGGGALYVEGGINFQDLLEIRIKYNKAGTFFETKKTILPSLKAQASAGNADAWAS 402

RESULT 11
US-09-620-412C-180
; Sequence 180, Application US/09620412C
; Patent No. 6448234
; GENERAL INFORMATION:
; APPLICANT: Steven P. Fling
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C7
; CURRENT APPLICATION NUMBER: US/09/620.412C
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 180
; LENGTH: 1752
; TYPE: PRT
; ORGANISM: Chlamydia
US-09-620-412C-180

Query Match      15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKGCSAIIHQGGYDFSYGTQTAALYNKAG---CSGVAVTRFGSSARACNPFQWKS 71
||| | : : : : : : : : : : : : : : : : : : : : : : : : : :
Db . 346 YSKGGGALYVEGGINFQDLLEIRIKYNKAGTFFETKKTILPSLKAQASAGNADAWAS 402

RESULT 12
US-09-598-419-180
; Sequence 180, Application US/09598419
; Patent No. 6565856
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Scholler, John
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.469C6
; CURRENT APPLICATION NUMBER: US/09/598.419
; CURRENT FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 357
; SOFTWARE: FastSeq for Windows Version 3.0/4.0
; SEQ ID NO 180
; LENGTH: 1752
; TYPE: PRT
; ORGANISM: Chlamydia
US-09-598-419-180

Query Match      15.6%; Score 66.5; DB 4; Length 1752;
Best Local Similarity 31.6%; Pred. No. 41;
Matches 18; Conservative 8; Mismatches 28; Indels 3; Gaps 1;

Qy 18 YSKGCSAIIHQGGYDFSYGTQTAALYNKAG---CSGVAVTRFGSSARACNPFQWKS 71
||| | : : : : : : : : : : : : : : : : : : : : : : : : : :
Db . 346 YSKGGGALYVEGGINFQDLLEIRIKYNKAGTFFETKKTILPSLKAQASAGNADAWAS 402

RESULT 13
US-09-562-702A-24
; Sequence 24, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562.702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24
; LENGTH: 1576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-24

Query Match      15.5%; Score 66; DB 4; Length 1576;
Best Local Similarity 26.6%; Pred. No. 42;
Matches 21; Conservative 6; Mismatches 40; Indels 12; Gaps 3;

Qy 3 FTWMSGPCNNRAERYSKGCSAIIHQGGYDFSYGTQTAALYNKAG---CSGVAVTRFGSS 60
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Db 891 YNLQSGQGC-----ERCDCALGSTNGQCDIRTGQCECQPGITGQHCERCEVNHFGFG 943

Qy 61 ARACNPFQWK---SIFIQC 76
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Db 944 PEGCKPCDCHPEGSLSLQC 962

RESULT 14
US-09-561-818A-24
; Sequence 24, Application US/09561818A
; Patent No. 6638907
; GENERAL INFORMATION:
; APPLICANT: Kortessmaa, Jarrko
; APPLICANT: Tryggvason, Karl
; TITLE OF INVENTION: Laminin 8 and Methods For Its Use
; FILE REFERENCE: 99,274-D
; CURRENT APPLICATION NUMBER: US/09/561.818A
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24
; LENGTH: 1576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-561-818A-24

Query Match      15.5%; Score 66; DB 4; Length 1576;
Best Local Similarity 26.6%; Pred. No. 42;
Matches 21; Conservative 6; Mismatches 40; Indels 12; Gaps 3;

Qy 3 FTWMSGPCNNRAERYSKGCSAIIHQGGYDFSYGTQTAALYNKAG---CSGVAVTRFGSS 60
: : : : : : : : : : : : : : : : : : : : : : : : : :
Db 891 YNLQSGQGC-----ERCDCALGSTNGQCDIRTGQCECQPGITGQHCERCEVNHFGFG 943

Qy 61 ARACNPFQWK---SIFIQC 76
: : : : : : : : : : : : : : : : : : : : : : : : : :
Db 944 PEGCKPCDCHPEGSLSLQC 962

RESULT 15
US-09-562-702A-28
; Sequence 28, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:

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; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 28
; LENGTH: 1584
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-28
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Query Match      15.5%; Score 66; DB 4; Length 1584;
Best Local Similarity 26.6%; Pred. No. 42;
Matches 21; Conservative 6; Mismatches 40; Indels 12; Gaps 3;

QY      3 FTWVGPGGNNRAERYKCGCAIHQKGGYDFSYTQGTAAALYNKAG--CSGVAVTRFGSS 60
Db      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      891 YNLQSGGCG-----ERCDCHALGSTNGQCDIRTGQCECPGITTGHCERCCEVNHFGFG 943

QY      61 ARACNPFGWK---SIFIQC 76
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      944 PEGCKPCDCHPEGSUSLQC 962
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Search completed: November 10, 2004, 19:45:38
Job time : 29 secs

